

SEQUENCE LISTING

<110> Wang, Caili
Zhong, Pingyu
Wang, Xinwei

<120> ADAPTER-DIRECTED DISPLAY SYSTEMS

<130> 13403.0005NPUS00

<160> 24

<170> PatentIn version 3.1

<210> 1

<211> 57

<212> DNA

<213> Bacteriophage M13

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<211> 19

<212> PRT

<213> Bacteriophage M13

<400> 2

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<210> 3

<211> 57

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<213> Bacteriophage M13

<400> 3

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 <223> Synthetic, comprising phage gene III leader sequence, GABAB
 recep
 tor 2 domain and Myc domain

<400> 4
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 120

 cagctgcagg acgtcggagg ttgcgcggcc gcagaacaaa aactcatctc agaagaggat
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<210> 5
 <211> 74
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic, comprising phage gene III leader sequence, GABAB
 recep
 tor 2 domain and Myc domain

<400> 5

Leu Val Val Pro Phe Tyr Ser His Ser Ala Thr Ser Arg Leu Glu Gly
 1 5 10 15

Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp
 20 25 30

Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys
 35 40 45

Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Arg Ser Gly
 50 55 60

Gly Gly Thr Val Glu Ser Cys Leu Ala Lys
 65 70

<210> 6
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic, comprising phage gene III leader sequence, GABAB
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 tor 2 domain and Myc domain

<400> 6

Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met
 1 5 10 15

Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu
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Gln Asp Val Gly Gly Cys Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu
 35 40 45

Glu Asp Leu Arg Ser Gly Gly Gly
 50 55

<210> 7
 <211> 3093
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic, comprising ampicillin gene sequence, ColE1 repli
 cation
 origin, f1 replication origin, Plac promoter, GABAB recept
 or 1 d
 omain, histidine tag

tctttaatag tggactcttg ttccaaactg gaacaacact caaccctatc tcggtctatt

REPORT OF THE

960

cttttgattt ataagggatt ttgccgattt cggcctattg gttaaaaaat gagctgattt
1020

aacaaaaatt taacgcgaat ttttaacaaaa tattaacgct tacaatttag gtggcacttt
1080

tcggggaaat gtgcgcggaa cccctatttg tttatttttc taaatacatt caaatatgta
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tccgctcatg agacaataac cctgataaat gcttcaataa tattgaaaaa ggaagagtat
1200

gagtattcaa catttccgtg tcgcccttat tccctttttt gcggcatttt gccttcctgt
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1560

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1740

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1033399-110201

1920

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1980

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2040

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2100

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2160

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2340

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2400

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2460

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2520

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2580

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2640

tcccgaaggg agaaaggcgg acaggtatcc ggtaagcggc agggtcggaa caggagagcg
2700

cacgagggag cttccagggg gaaacgcctg gtatctttat agtcctgtcg ggtttcgcca
2760

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2820

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2880

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2940

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3060

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3093

<210> 8

<211> 192

<212> DNA

<213> Bacteriophage M13

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120

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180

gatcgttacg ct
192

<210> 9

<211> 64

<212> PRT

<213> Bacteriophage M13

<220>

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<222> (11)..(11)

<223> Xaa = stop codon

<400> 9

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1

5

10

15

Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Arg Ser Arg Ser
 20 25 30

Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys Pro His Thr Glu Asn
 35 40 45

Ser Phe Thr Asn Val Trp Lys Asp Asp Lys Thr Leu Asp Arg Tyr Ala
 50 55 60

<210> 10

<211> 2962

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic, comprising ampicillin gene sequence, ColE1 repli
 cation

origin, f1 replication origin, Plac promoter, influenza vi
 rus he
 magglutinin tag

<400> 10

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 120

ctttagtaag gaggaattaa aaaatgaaat acctattgcc tacggcagcc gctggattgt
 180

tattactcgc ggcccagccg gccatggcgg cctgcaggc ctctagagcg gccgcttacc
 240

cgtacgacgt tccggactac gcaggtggct gctgataagt cgacctcgac caattcgccc
 300

tatagtgagt cgtattacaa ttcactggcc gtcgttttac aacgtcgtga ctgggaaaac
 360

cctggcggtta cccaacttaa tcgccttgca gcacatcccc ctttcgccag ctggcgtaat
 420

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540

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600

acgttcgccg gctttccccg tcaagctcta aatcgggggc tccctttagg gttccgattt
660

agtgctttac ggcacctcga ccccaaaaaa cttgattagg gtgatggttc acgtagtggg
720

ccatcgccct gatagacggt ttttcgccct ttgacgttgg agtccacggt ctttaatagt
780

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840

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900

aacgcgaatt ttaacaaaat attaacgctt acaatttagg tggcactttt cggggaaatg
960

tgcgcggaac ccctatttgt ttatttttct aaatacattc aaatatgtat ccgctcatga
1020

gacaataacc ctgataaatg cttcaataat attgaaaaag gaagagtatg agtattcaac
1080

atttccgtgt cgcccttatt cccttttttg cggcattttg ccttctgtt tttgctcacc
1140

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1200

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1260

caatgatgag cactttttaa gttctgctat gtggcgcggt attatcccgt attgacgccg
1320

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1380

10033399-110201

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2340

SECRET

ccagtggcga taagtcgtgt cttaccgggt tggactcaag acgatagtta ccggataagg
2400

cgcagcggtc gggctgaacg gggggttcgt gcacacagcc cagcttggag cgaacgacct
2460

acaccgaact gagataccta cagcgtgagc tatgagaaag cgccacgctt cccgaaggga
2520

gaaaggcgga caggtatccg gtaagcggca gggtcggaac aggagagcgc acgagggagc
2580

ttccaggggg aaacgcctgg tatctttata gtcctgtcgg gtttcgccac ctctgacttg
2640

agcgtcgatt tttgtgatgc tcgtcagggg ggcggagcct atggaaaaac gccagcaacg
2700

cggccttttt acggttcctg gccttttgct ggccttttgc tcacatgttc tttcctgcgt
2760

tatccctga ttctgtggat aaccgtatta ccgcctttga gtgagctgat accgctcgcc
2820

gcagccgaac gaccgagcgc agcgagtcag tgagcgagga agcggaagag cgcccaatac
2880

gcaaaccgcc tctccccgcg cgttggccga ttcattaatg cagctggcac gacaggtttc
2940

ccgactggaa agcgggcagt ga
2962

<210> 11

<211> 903

<212> DNA

<213> Bacteriophage M13

<400> 11

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120

cagctgcagg acgtcggagg ttgcgcggcc gcagaacaaa aactgatctc agaagaggat

180

ctgacgcgtg ctggcggcgg ctctggtggt gggtctggtg gcggctctga gggcggcggc
240

tctgaggggtg gcggttctga gggcggcggc tctgaggggtg gcggttccgg tggcggctcc
300

ggttccgggtg attttgatta tgaaaaaatg gcaaacgcta ataagggggc tatgaccgaa
360

aatgccgatg aaaacgcgct acagtctgac gctaaaggca aacttgattc tgtcgctact
420

gattacgggtg ctgctatcga tggtttcatt ggtgacgttt ccggccttgc taatggtaat
480

ggcgtactg gtgattttgc tggctctaata tcccaaattg ctcaagtcgg tgacgggtgat
540

aattcacctt taatgaataa tttccgtcaa tatttacctt cctccctca atcgggtgaa
600

tgtcgccctt ttgtctttgg cgctggtaaa ccatatgaat tttctattga ttgtgacaaa
660

ataaacttat tccgtgggtg ctttgcggtt cttttatatg ttgccacctt tatgtatgta
720

ttttctacgt ttgctaacaat actgcgtaat aaggagtctt aataaggcgc gccacaattt
780

cacagtaagg aggtttaata aatgaaaaag acagctattg cgattgcagt ggcactggct
840

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900

aaa
903

<210> 12
<211> 287
<212> PRT
<213> Bacteriophage M13

<400> 12

Leu Val Val Pro Phe Tyr Ser His Ser Ala Thr Ser Arg Leu Glu Gly
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Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp
20 25 30

Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys
35 40 45

Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Thr Arg Ala
50 55 60

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Gly Gly Gly
65 70 75 80

Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser
85 90 95

Gly Gly Gly Ser Gly Ser Gly Asp Phe Asp Tyr Glu Lys Met Ala Asn
100 105 110

Ala Asn Lys Gly Ala Met Thr Glu Asn Ala Asp Glu Asn Ala Leu Gln
115 120 125

Ser Asp Ala Lys Gly Lys Leu Asp Ser Val Ala Thr Asp Tyr Gly Ala
130 135 140

Ala Ile Asp Gly Phe Ile Gly Asp Val Ser Gly Leu Ala Asn Gly Asn
145 150 155 160

Gly Ala Thr Gly Asp Phe Ala Gly Ser Asn Ser Gln Met Ala Gln Val
165 170 175

Gly Asp Gly Asp Asn Ser Pro Leu Met Asn Asn Phe Arg Gln Tyr Leu
180 185 190

Pro Ser Leu Pro Gln Ser Val Glu Cys Arg Pro Phe Val Phe Gly Ala
195 200 205

Gly Lys Pro Tyr Glu Phe Ser Ile Asp Cys Asp Lys Ile Asn Leu Phe
210 215 220

Arg Gly Val Phe Ala Phe Leu Leu Tyr Val Ala Thr Phe Met Tyr Val
225 230 235 240

Phe Ser Thr Phe Ala Asn Ile Leu Arg Asn Lys Glu Ser Met Lys Lys
245 250 255

Thr Ala Ile Ala Ile Ala Val Ala Leu Ala Gly Phe Ala Thr Val Ala
260 265 270

Gln Ala Arg Ser Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys
275 280 285

<210> 13
<211> 272
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic, comprising lac promoter, phage gene VIII leader
sequen ce, influenza virus hemagglutinin tag, phage gene III seque
nce

<400> 13
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tgaaaaagtc tttagtcctc aaagcctccg tagccgttgc taccctcggt ccatgctaa
120

gcttcgcttc tagagcggcc gcttatccat acgacgtacc agactacgca ggaggtcatc
180

accatcatca ccattagaga tctggaggcg gtactgttga aagttgttta gcaaaagcta
240

<210>	14
<211>	69
<212>	PRT
<213>	Artificial Sequence

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<220>
<221> MISC_FEATURE
<222> (46)..(69)
<223> Xaa = stop codon
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Val Pro Met Leu Ser Phe Ala Ser Arg Ala Ala Ala Tyr Pro Tyr Asp
20 25 30

Val Pro Asp Tyr Ala Gly Gly His His His His His His Xaa Arg Ser
35 40 45

Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys Ala Asn Ile Leu Arg
50 55 60

Asn Lys Glu Ser Xaa
65

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<210> 15
<211> 146
<212> DNA
<213> Homo Sapien
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<400> 15

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120gtaggaggtt gttaataggg cgcgcc
146

<210> 16

<211> 44

<212> PRT

<213> Homo Sapien

<400> 16

Ser Arg Gly Gly Gly Gly Glu Glu Lys Ser Arg Leu Leu Glu Lys Glu
1 5 10 15Asn Arg Glu Leu Glu Lys Ile Ile Ala Glu Lys Glu Glu Arg Val Ser
20 25 30Glu Leu Arg His Gln Leu Gln Ser Val Gly Gly Cys
35 40

<210> 17

<211> 140

<212> DNA

<213> Homo Sapien

<400> 17

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120gtcggaggtt gcgcggccgc
140

<210> 18

<211> 47

<212> PRT
 <213> Homo Sapien

<400> 18

Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu
 1 5 10 15

Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu
 20 25 30

Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys Ala Ala Ala
 35 40 45

<210> 19
 <211> 32
 <212> DNA
 <213> Bacteriophage M13

<400> 19
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 32

<210> 20
 <211> 32
 <212> DNA
 <213> Bacteriophage M13

<400> 20
 tagaaaggta ccactaaagg aattgcgaat aa
 32

<210> 21
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Primer

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ctacgcatga taagtcgacc tcgaccaatt cgccctatag tgagtcgtat tacaattcac
420

tggccgtcgt tttaacaagt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc
480

ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgcc accgatcgcc
540

cttcccaaca gttgcgcagc ctgaatggcg aatgggacgc gccctgtagc ggcgcatata
600

gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc
660

ccgctccttt cgctttcttc ccttcctttc tcgccacggt cgccggcttt ccccgtaag
720

ctctaaatcg ggggctccct ttaggggtcc gatttagtgc ttacggcac ctcgacccca
780

aaaaacttga ttaggggtgat gggtcacgta gtgggccatc gccctgatag acggtttttc
840

gccctttgac gttggagtcc acgttcttta atagtggact cttgttccaa actggaacaa
900

cactcaacc tatctcggtc tattcttttg attataagg gattttgccg atttcggcct
960

attggttaaa aaatgagctg atttaacaaa aatttaacgc gaattttaac aaaatattaa
1020

cgcttacaat ttaggtggca cttttcgggg aaatgtgcgc ggaacccta tttgtttatt
1080

tttctaata cattcaaata tgtatccgct catgagacaa taaccctgat aaatgcttca
1140

ataatattga aaaaggaaga gtatgagtat tcaacatttc cgtgtcgccc ttattcctt
1200

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1260

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1380

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1500

tggcatgaca gtaagagaat tatgcagtgc tgccataacc atgagtgata aactgcggc
1560

caacttactt ctgacaacga tcggaggacc gaaggagcta accgcttttt tgcacaacat
1620

gggggatcat gtaactcgcc ttgatcggtg ggaaccggag ctgaatgaag ccataccaaa
1680

cgacgagcgt gacaccacga tgccctgtagc aatggcaaca acgttgcgca aactattaac
1740

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1800

agttgcagga ccacttctgc gtcgggcct tccggetggc tggtttattg ctgataaatc
1860

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1920

ctcccgatc gtagttatct acacgacggg gagtcaggca actatggatg aacgaaatag
1980

acagatcgct gagatagggt cctcactgat taagcattgg taactgtcag accaagtta
2040

ctcatatata ctttagattg atttaaaact tcatttttaa tttaaaggga tctaggtgaa
2100

gatccttttt gataatctca tgaccaaaat cccttaacgt gagttttcgt tccactgagc
2160

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2220

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2280

gctaccaact ctttttccga aggtaactgg cttcagcaga gcgcagatac caaatactgt
2340

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ccttctagtg tagccgtagt taggccacca cttcaagaac tctgtagcac cgctacata
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2520

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2580

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2640

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2700

ttatagtcct gtcgggtttc gccacctctg acttgagcgt cgatttttgt gatgctcgtc
2760

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2820

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2880

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2940

gtcagtgagc gaggaagcgg aagagcgccc aatacgcaaa ccgcctctcc ccgcgcgttg
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<212> DNA

<213> Artificial Sequence

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<223> Synthetic, comprising Cam gene sequence, ColE1 replication
origin

, fl replication origin, lac promoter, GABAB receptor 2 dom
ain, L

1003391 110201

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